



WADEX

word &
author
index

VOLUME 15

1962

APPLIED MECHANICS

Reviews

Under the Sponsorship of

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Publisher: The American Society of Mechanical Engineers, United Engineering Center, New York 17, N.Y., U. S. A.

Editorial Office: Southwest Research Institute, 8500 Culebra Road, San Antonio 6, Texas, U. S. A.

Subscription and Production Office: ASME, 345 East 47th Street, New York 17, N.Y., U. S. A.

Depository: Linda Hall Library, 5109 Cherry Street, Kansas City, Missouri

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APPLIED MECHANICS REVIEWS

WADEX

WORD & AUTHOR INDEX

VOLUME 15

1962

Datamated by

E. A. Ripperger

UNIVERSITY OF TEXAS

Harold Wooster

AIR FORCE

OFFICE OF SCIENTIFIC RESEARCH

Stephen Juhasz

APPLIED MECHANICS REVIEWS

Francis Roach

UNIVERSITY OF TEXAS

THE AMERICAN SOCIETY OF MECHANICAL ENGINEERS
UNITED ENGINEERING CENTER
345 EAST 47th STREET NEW YORK 17, N. Y.

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P R E F A C E

WADEX is an experimental information retrieval project of *Applied Mechanics Reviews*. For the year covered by WADEX, regular subscribers to the *REVIEWS* have received a conventional subject and author index. The present publication employs new computer programming techniques for the preparation of an index which is believed to possess several advantages over the conventional as well as the other computer made indexes.

Much intellectual and clerical work is needed in the preparation of a conventional subject index such as the one published yearly by AMR. Use of the computer has, for most of the indexes, already eliminated much of the clerical work. Utilization of the best capabilities of the computer makes it possible to devise a different kind of index and in addition, eliminate most of the intellectual work, required for a conventional subject index.

History of WADEX

At least 30 different organizations in this country have produced machine-made indexes of different types during the past five years. The development of these indexes has been stimulated by an excellent idea conceived and implemented by H. P. Luhn. He devised a computer-made permuted index which he named KWIC (Key Words in Context). In this index the keyword in each title appears in context (somewhere in the middle of the column) in a vertically aligned position with an extra space preceding the key word for easy identification. The advantage of having the key word appear in context is that the words preceding and following the key word can be regarded as a "subheading"; also the index is quite compact. On the other hand, with this arrangement there are two major disadvantages. The titles in general must be arbitrarily shortened in order to occupy only the one line assigned to the title of the publication. This is done by chopping them off at the beginning or the end, or at both places. Also the first word of the title, in the various entries, may appear anywhere in the line, and in many cases will follow rather than precede the keyword.

Since the printing and publication of the first KWIC Index, several modified formats have appeared (see for example CA's *CHEMICAL TITLES*, BA's *BASIC*, OTS's *KEYWORDS INDEX*, NASA's *SCIENTIFIC AND TECHNICAL AEROSPACE REPORTS* and AIAA's *INTERNATIONAL AEROSPACE ABSTRACTS*). The latter two indexes are organized so that the keywords (or subject headings) are printed out of context (sometimes referred to as KWOC). The present index, which is a modified form of the previous Key Word Out of Context indexes, has been given the name WADEX where the letters stand for Word & Authors inDEX. This index incorporates many excellent features of previously published machine-made indexes and wherever it differs from others, the alterations have been made with specific objectives in mind. No changes in the existing format have been made for the sake of change itself.

The late Dr. Theodore von Karman, Honorary Editor of *Applied Mechanics Reviews*, was quite enthusiastic about machine-made indexes. During a detailed conference in the summer of 1962, he expressed the opinion that by using descriptors contained in the bibliographical headings of the publication much of the intellectual labor and ambiguity of subject indexing could be avoided. He thought that the advantages of having the keyword in context were more than counteracted by the disadvantages of having the titles chopped off and by not having the title starting in identical positions, even if not chopped off at the beginning. He felt that a machine-made index should list the complete titles from the beginning.

Following the recommendation of Dr. von Karman and with his concurrence, AMR has adopted in WADEX some features of the KEYWORDS INDEX published by OTS, using the descriptors "out of context". This way, the bibliographical heading starts in identical position and the title is not chopped off either at the beginning or at the end.

By combining the author and word indexes and using the author name(s) as one of the descriptors, the user of the index is relieved of the necessity of learning how to use both a subject and an author's index. Besides, in the mind of the literature searcher, the subject words and author names are not necessarily separated.

With regard to bibliographical references in the machine-made indexes, there are two practices. One provides the bibliographical references so that the reader can find the paper without the abstract or review magazine proper by having coded periodical title, volume, issue number, etc. and the other practice is to give only the reference to the publication abstract or review magazine. The latter practice is followed in the METEOROLOGICAL & GEOASTROPHYSICAL TITLES published by AMS and has been adopted for WADEX.

Since WADEX, unlike most machine-made indexes, is an annual publication, it is most suitable to retrospective search, whereas the monthly indexes are more suitable for current awareness information.

Description of WADEX Preparation

A 1401 IBM computer was used to compile a list of all words which appear in titles in the entire Vol. 15 of AMR (7400 items), and to count the frequency of occurrence of these words. From this primary frequency-count list, a secondary list of "forbidden words" was prepared.

All trivial words such as prepositions, conjunctions, articles (OF, AND, THE, IT, etc.), most of the non-technical words and technical words which appeared more than about 100 times (FLOW occurred 650 times) are on this prepared list. Some trivial words which appeared with a very low frequency are not on the list of forbidden words. They are estimated to amount to about 1 per cent of all descriptors. It is not economically feasible to "forbid" these trivial words.

The list was used to weed out many descriptors. Thus, in the preparation of WADEX, the selection of the descriptors does not involve intellectual effort. As a matter of fact, descriptors are not selected, but rather words which are not to be used as descriptors are discarded and all of the remaining words are considered to be descriptors.

Further weeding was performed to eliminate multiple entries due to the same word appearing two or more times in the same title with exactly the same spelling. Each title appears in the WADEX on the average about 6 times, including the times it is listed under authors' names.

Description of WADEX and How to Use It

Each WADEX entry is composed of three parts, namely: 1) Descriptor, 2) Reference numbers, and 3) Bibliographical entry. Examples of these three parts are given in their properly indented positions and then in a combined form as a complete listing.

The DESCRIPTOR is a word or an author's name. If it is an author's name, then the author's last name is followed by his initial or initials. (In case of long descriptors, no more than 20 characters are printed and the last letter of the descriptor is retained.) Examples for descriptors:

ACTIVATION

DISTRIBUTED-MASS

SLATER, J.A.

The AMR REFERENCE NUMBER contains the year, month, and item number.
Example:

64-03-2431

BIBLIOGRAPHICAL ENTRY contains the author(s) name and the full title of the publication. Each title, it will be noted, is completely listed and appears without abbreviation, but to conserve space and to simplify the programming required for machine production of the WADEX, words are broken at the end of a line without regard to syllabication. Thus one may see the word ANALOGY is broken after the AN with ALOGY appearing on the next line. Occasionally the line which begins with a broken word appears at the top of the next column or even on the next page. Example for the bibliographical entry for above paper is as follows:

SLATER, J.A., AND LANGLEY, B.K., ACTIVATION CONCEPTS IN THE ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

Examples of COMPLETE ENTRIES listed under three different descriptors for the same publication are:

ACTIVATION 64-03-2431
SLATER, J.A., AND LANGLEY, B.K., ACTIVATION CONCEPTS IN THE ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

DISTRIBUTED-MASS 64-03-2431
SLATER, J.A., AND LANGLEY, B.K., ACTIVATION CONCEPTS IN THE ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

SLATER, J.A. 64-03-2431
SLATER, J.A., AND LANGLEY, B.K., ACTIVATION CONCEPTS IN THE ANALYSIS OF DISTRIBUTED-MASS SYSTEMS SUBJECTED TO IMPULSE, ANALOGY OF CHEMICAL-KINETIC CONCEPTS IN STRUCTURAL-VIBRATION.

For book reviews, the word BOOK precedes the reference numbers and for the monthly feature articles the item number appears as a four digit number starting with 99 followed by the month indicator; thus, the February feature article would have the number 9902.

If a user is looking for a specific paper and can recall the author(s) name(s), he can locate the paper under that (those) name(s). Likewise, if he can recall any non-trivial word in the title he can locate the paper under that word (unless it happens to be one of the words which were forbidden because they appear too many times.) If, on the other hand, the user is seeking references pertaining to a particular subject, he will find pertinent papers listed under words which are descriptive of the subject.

In the case of words appearing frequently, such as ELASTICITY, the first word in the bibliographical entry, namely the first author's name, can be looked upon as a first "subheading". If more than one paper written by the same author appears under the same descriptor (word), then the review number is used for a second subsequencing.

If the descriptor is an author's name, then this name appears twice in the entry (just as if the descriptor were a word), once as a descriptor and once in the bibliographical heading. Although this may seem repetitious, it could be avoided only by developing a much more complicated machine program. Also the repetition indicates to the reader whether the author did the work alone or with co-author(s).

Since the WADEX has the author(s) name(s) and complete titles, it is quite useable for browsing purposes, although considerably longer than the regular AMR subject and author index (some 600 pages as compared with 40 + 20 pages).

Authors' names have been spelled as in the primary journals, and no attempts were made to standardize spellings. In cases of uncertainty concerning identity of an author, the reader can guess as well as the editors (for example, DOE, J. B., and DOE, B.).

AMR uses the NATIONAL FEDERATION OF SCIENCE ABSTRACTING AND INDEXING SERVICE transliteration system for Russian symbols when the transliteration is made in the AMR editorial office. Quite a few Russian articles have been taken, however, from magazines where the articles already appear in translation, hence, different transliterations were employed. Efforts were made, however, to change the first letter of the author's surname if otherwise his entries would be entirely separated (such as in the case of Yakolev, Jakolev, or Iakolev).

Acknowledgment

The editors of *Applied Mechanics Reviews* are indebted to the Air Force Office of Scientific Research and Office of Naval Research for the special grant for editorial expenses of this first WADEX, and the computational facilities and professional assistance so freely and cooperatively made available by the University of Texas staff. The editors wish to acknowledge the continued support from the National Science Foundation which makes possible much of the activities of *Applied Mechanics Reviews*.

WADEX: List of Forbidden Words

A	CONFIGURATIONS	FUNDAMENTALS	ON	SIZE
ABOUT	CONNECTION	FURTHER	ONE	SLIGHTLY
ABOVE	CONSIDERATION	GAS	OPEN	SMALL
ACCORDING	CONSIDERATIONS	GASES	OPERATING	SOLID
ACCOUNT	CONSIDERING	GENERAL	OPERATION	SOLIDS
ACROSS	CONSISTING	GENERALIZATION	OR	SOLUTION
ACTING	CONSTANT	GENERALIZED	OTHER	SOLUTIONS
ACTION	CONTAINING	GROWTH	OUT	SOLVING
ADDITION	CONTINUOUS	HAVING	OVER	SOME
ADJACENT	CONTINUOUSLY	HEAT	PARALLEL	SPECIAL
ADVANCED	CONTRIBUTION	HEATING	PARAMETER	SPEED
ADVANCES	CORRECTION	HEAVY	PARAMETERS	SPEEDS
AFFECTED	CUMULATIVE	HEIGHT	PART	STABILITY
AFTER	CURVED	HELP	PARTICULAR	STEADY
AGAINST	DATA	HIGH	PARTLY	STRAIGHT
AID	DEEP	HIGHER	PARTS	STRENGTH
AIR	DEFINITION	HIGHLY	PAST	STRESS
ALONG	DEGREE	IDEALLY	PER	STRESSES
ALTERNATING	DEGREES	IMPROVED	PERFORMANCE	STUDIES
ALTITUDE	DELAY	IMPROVEMENT	PHENOMENA	STUDY
AN	DEPENDENCE	IN	PHENOMENON	SUBJECT
ANALYSES	DEPTH	INCLUDING	PHYSICAL	SUBJECTED
ANALYSIS	DERIVATION	INFINITE	PHYSICS	SUBSTANCES
ANALYZING	DERIVATIVES	INFINITELY	PLANE	SUCCESSIVE
AND	DESIGN	INFLUENCE	POINT	SUITABLE
ANY	DESIGNING	INFORMATION	POINTS	SUMMARY
APPLICABILITY	DETERMINATION	INITIAL	POSITION	SURFACE
APPLICATION	DETERMINED	INITIALLY	POSITIVE	SURFACES
APPLICATIONS	DETERMINING	INSIDE	POSSIBLE	SURVEY
APPLIED	DEVELOPMENT	INTERIOR	POWER	SYMMETRIC
APPROACH	DEVELOPPMENTS	INTERNATIONAL	PRACTICAL	SYMMETRICAL
APPROXIMATE	DEVICE	INTERPRETATION	PRACTICE	SYMMETRICALLY
APPROXIMATION	DEVICES	INTO	PREDICTED	SYMMETRY
APPROXIMATIONS	DIAGRAMS	INTRODUCTION	PREDICTING	SYMPOSIUM
ARBITRARY	DIAMETER	INVESTIGATING	PREDICTION	SYSTEMS
ARE	DISCONTINUITY	INVESTIGATION	PRELIMINARY	TAKEN
ARISING	DISCONTINUOUS	INVESTIGATIONS	PRESENCE	TAKING
AROUND	DISCUSSION	INVOLVING	PRESENTATION	TECHNICAL
ARTIFICIAL	DISTANCE	IRREGULAR	PRESSURE	TECHNIQUE
AS	DISTANCES	IS	PRESSURES	TECHNIQUES
ASSOCIATED	DISTRIBUTION	ITS	PRIMARY	TECHNOLOGY
AT	DISTRIBUTIONS	LABORATORY	PRINCIPAL	TEST
AVERAGE	DOUBLE	LARGE	PRINCIPLE	TESTING
AXIS	DOUBLY	LAW	PRINCIPLES	TESTS
BACK	DRIVEN	LAWS	PROBLEM	THAN
BASIC	DRIVING	LAYER	PROBLEMS	THAT
BASIS	DUE	LAYERS	PROCEDURE	THE
BEHAVIOR	DURATION	LENGTH	PROCEEDINGS	THEIR
BEHAVIOR	DURING	LIQUID	PROCESS	THEORETICAL
BEHIND	EFFECT	LIQUIDS	PROCESSES	THEORIES
BEING	EFFECTIVE	LOAD	PRODUCED	THEORY
BETWEEN	EFFECTIVENESS	LOADED	PRODUCTION	THERMAL
BEYOND	EFFECTS	LOADING	PRODUCTS	THICKNESS
BODIES	EFFICIENCY	LOADS	PROGRESS	THIN
BODY	ELEVATED	LEGAL	PROPAGATION	THIRD
BOTTOM	EMPIRICAL	LOCATION	PROPERTIES	THREE
BY	ENDS	LONG	PROPERTY	THROUGH
CALCULATED	ENGINEERING	LOW	QUESTION	TIME
CALCULATING	ENGINEERS	LOWER	QUESTIONS	TIMES
CALCULATION	EQUAL	MACH	RAPID	TO
CALCULATIONS	EQUATION	MADE	RAPIDLY	TOTAL
CAPABILITIES	EQUATIONS	MAGNITUDE	RATIO	TRANSFER
CAUSED	ESTIMATES	MASSIVE	RATIOS	TRANSFERS
CENT	ESTIMATING	MATERIAL	RECENT	TWO
CENTER	ESTIMATION	MATERIALS	RECTANGULAR	TYPE
CENTRAL	EVALUATING	MEANS	REFERENCE	TYPES
CENTRALLY	EVALUATION	MEASURE	REGARDING	UNDER
CERTAIN	EXACT	MEASURED	RELATED	UNIFIED
CHANGE	EXAMINATION	MEASUREMENT	RELATION	UNIFORM
CHANGES	EXAMPLE	MEASUREMENTS	RELATIONS	UNIFORMLY
CHANGING	EXERCISED	MEASURING	RELATIONSHIP	UNIVERSAL
CHARTS	EXERTED	MECHANICAL	RELATIONSHIPS	UNSYMMETRICAL
CHOICE	EXPANSION	MECHANICS	REMARKS	UP
CIRCULAR	EXPANSIONS	MEDIA	REPEATED	UPON
CLASS	EXPERIMENTAL	MEDIUM	REPRESENTATION	UPPER
CLASSICAL	EXTENSION	METAL	REQUIRED	USE
CLASSIFICATION	EXTENSIONS	METALS	REQUIREMENTS	USED
CLOSE	EXTERNAL	METHOD	RESEARCH	USING
CLOSED	EXTERNALLY	METHODS	RESEARCHES	USS
COEFFICIENT	FACTOR	MILD	RESULTS	VALUE
COEFFICIENTS	FACTORS	MODERN	RETURN	VALUES
COMBINATION	FEATURES	MODIFIED	REVIEW	VARIABLE
COMBINATIONS	FIELD	MORE	RISE	VARIED
COMBINED	FIELDS	MOTION	ROLE	VARIOUS
COMPARATIVE	FINAL	MCTIONS	ROUND	VARYING
COMPARISON	FINE	MOVEMENT	SCIENTIFIC	VELOCITIES
COMPARISONS	FIRST	MOVING	SCIENTISTS	VELOCITY
COMPENSATION	FIXED	MULTIPLE	SECOND	VERY
COMPLETE	FLAT	NARROW	SECTION	VICINITY
COMPONENT	FLOW	NATURAL	SECTIONS	VOLUME
COMPONENTS	FLOWING	NATURE	SELECTED	WATER
COMPOSED	FLOWS	NEAR	SELECTION	WEIGHT
COMPOSITE	FLUID	NEW	SEVERAL	WHEN
COMPUTATION	FLUIDS	NORMAL	SHAPE	WHERE
COMPUTING	FOR	NOTE	SHAPED	WHICH
CONCENTRATED	FORCE	NOTES	SHAPES	WHOSE
CONCENTRATION	FORCED	NUMBER	SIMPLE	WIDTH
CONCENTRATIONS	FORCES	NUMBERS	SIMPLIFIED	WITH
CONCEPT	FORM	OBSERVATION	SIMPLY	WITHOUT
CONCEPTS	FORWARD	OBSERVATIONS	SINGLE	ZONAL
CONCERNING	FOUR	OBSERVED		ZONE
CONDITION	FROM	OBTAINED		
CONDITIONS	FULL	OBTAINING		
CONFERENCE	FULLY	OCCURRING		
CONFIGURATION	FUNDAMENTAL	OF		

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